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Singer
Simulation Products
Division
Binghamton, New York

FOREWORD

The Data Book is prepared in sections, with each section representing a subsystem development activity. The information contained in this document is required at PDR and at CDR.

Because PDR's and CDR's are scheduled on an incremental basis, the Data Book sections are prepared incrementally consistent with the scheduled dates for associated subsystem PDR's and CDR's.

The initial release of the Data Book will contain sections required for the first PDR's held. Sections required for subsequent PDR's will be released as changes to the initial release. Revision A of the Data Book will initially contain sections required for the first CDR's held. Section required for subsequent CDR's will be released as changes to Revision A.

Data Book
DRJ, Item 27, DRD SE-084TB

1.0 General

The Data Book for the Shuttle Mission Simulator (SMS) is contained in separate sections of this document. These sections are generated individually for use during the design reviews held for the applicable systems of the SMS.

The sections of the SMS Data Book are listed below:

- Section 1 - Electrical Power System (EPS)
- Section 2 - Mechanical Power System (MPS)
- Section 3 - Main Prop & Ext. Tank
- Section 4 - Solid Rocket Booster
- Section 5 - Reaction Control System
- Section 6 - Orbital Maneuvering System
- Section 7 - Guidance, Navigation & Control
- Section 8 - Comm and Tracking Insts.
- Section 9 - Env. Cont. & Life Support
- Section 10 - Data Processing System
- Section 11 - Mechanical System
- Section 12 - Payload Accommodation (Not Required)
- Section 13 - Vehicle Dynamic System
- Section 14 - Mission Control Center Interface
- Section 15 - Image Generation System
- Section 16 - Image Display System

Section 17 - Image Processing & Control

Section 18 - Software Stds & Support Software

Section 19 - Utility Software

Section 20 - Crew Stations✓

Section 21 - Motion Base (Not Required)

Section 22 - Instructor Operator Stns✓

Section 23 - Digital Computer Complex

Section 24 - Signal Conv. & Ancillary

DRL No. 27
DRD No. SE-084TB
JSC No. 11012

Data Book

Release Control Sheet

First Release - 2 April 1976

This release of the Data Book consists of the following section(s):

<u>Section</u>	<u>Description</u>
20	Crew Station
22	Instructor/Operator Station
24	Signal Conversion & Ancillary

"SMS-Data Book"

**IDENTIFYING
INCREMENTAL SECTION
RELEASE SHEET**

The following is part of Section 20, WP #20, Subsections:

- a) Crew Station (Structure)**
- b) Crew Station (Controls & Displays)**

DATA BOOK

A. Crew Station (Structure)

1.0 Scope

section of the SMS Data Book identifies the design data base for the Crew Station - Structure (Forward).

2.0 Design Data

The Design Data used in the Crew Station - Structures & Panels is listed in Table 2.0-1.

2.1 Assumptions

- 1) The new panels for 102 will fit into the structure designed for OAS except for the overhead panels & structure.

SMS DATA BOOK - TABLE 2.0-1
SYSTEM CREW STATION - STRUCTURES

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>SOURCE</u>	<u>COMMENTS</u>
1	VO70-333201	CTR CONSOLE INSTL	NASA	
2	VO70-333401	RIGHT SIDE CONSOLE	NASA	REV A02
3	VO70-333101	MAIN DISPLAY CONSOLE		REV. A01
4	VO70-333102	ASSY MAIN DISPLAY		
5	VO70-333103	MAIN DISPLAY CLOSEOUT		
6	VO70-333104	AFT STIFF CTR MAIN DISPLAY		
7	VO70-333108	SPLICE-FRAME MDC		
8	VO70-333109	OUTBD FRAME		REV. A02
9	VO70-333110	FRAME OUTBD REINF.		
10	VO70-333115	OUTBD-AFT STIFF		
11	V70-33-215	PANEL PLANE DEF.		1-06-75
12	V70-33-215.01	PANEL PLANE DEF.		12-05-74
13	V70-33-212	PANEL PLANE DEF.		10-14-74
14	V70-33-212.01	PANEL PLANE DEF.		12-02-74
15	V70-33-214	PANEL PLANE DEF.		10-10-74
16	V70-33-213	PANEL PLANE DEF.		11-04-74
17	V70-33-211	PANEL PLANE DEF.		11-04-74
18	V70-33-211.01	PANEL PLANE DEF.		11-04-74
19	VO70-730820	DISPLAY & CONTROLS		
20	VO70-333126	MDC BASE		REV. A02
21	VO70-333100	SUPPORT STRUCT INSTL		
22	VO70-333248	PANEL SPEED BRAKE		REV. A01
23	VO70-333253	FRAME CENTER CONSOLE AFT		REV. A02
24	VO70-333261	ZEE CENTER CONSOLE SUPPORT		
25	VO70-333263	HINGE CENTER CONSOLE ACCESS		

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>SOURCE</u>	<u>COMMENTS</u>
26	VO70-333254	FRAME INTERMED. CTR CONSOLE		REV. A01
27	VO70-333204	AFT PNL SUPPORT CTR CONSOLE		REV. A04
28	VO70-333205	TEE FL ATTACH L&R CTR CONSOLE		REV. A04
29	VO70-333206	ANGLE CTF CONSOLE FWD		REV. A02
30	VO70-333207	AFT PANEL CTR CONSOLE		REV. A01
31	VO70-333211	WEB CTR CONSOLE AFT PANEL		REV. A01
32	VO70-333215	PANEL CTR CONSOLE MID SECT.		REV. A01
33	VO70-333216	WEB CTR CONSOLE FWD PANEL		REV. A02
34	VO70-333219	CTR PANEL C L&R		REV. A01
35	VO70-333222	MDC FITTING		REV. A02
36	VO70-333224	PNL CTR CONSOLE FWD WEB		
37	VO70-333228	GUSSET FWD UPPER CTR CONSOLE		
38	VL70-730525	GLARESHIELD, SUPPORT		
39	VL70-730150	GLARESHIELD, ASSY, SUPPORT		REV. A01
40	VO70-730500	GLARESHIELD, F2 F4		
41	VO70-730809	CTR CONSOLE SUB STRUCT		
42	VO70-333602	RH SUPP STRUCT CIRC. BK		
43	VO70-333603	LH SUPP STRUCT CIRC. BK		REV. A01
44	VO70-333605	BC CLOSEOUT RH		
45	VO70-333606	LOWER CB DOOR		REV. A02
46	VO70-333638	DOOR CB AFT UPPER		REV. A01
47	VO70-333639	CB PANEL LH CLOSEOUT		REV. A01
48	VO70-333643	COVER AFT LOWER		
49	VO70-333651	UPPER AFT CAP LH		REV. A01
50	VO70-333654	LOWER ACCESS DOOR LH		REV. A01

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>SOURCE</u>	<u>COMMENTS</u>
51	VO70-333601	MSS PANEL RH		
52	VO70-333619	MSS CLOSEOUT		
53	VO70-333618	MSS SUPPORT ANGLE		
54	VO70-730780	UPPER RH CB PANEL		
55	VO70-730990	LOWER RH CB PANEL		
56	VO70-650150	EJECT SEAT SUPT STRUCT INSTL		REV. A01
57	VO70-650100	CREW ESCAPE SYS INSTL		
58	ME621-0057	EJECT SEAT CREW ESCAPE SYS		REV. A01
59	VO70-650156	CHANNEL, VERT SIDE, EJ SEAT		
60	VO70-650160	SUPPORT STRUCT ASSY		
61	VO70-650151	WEB-LOWER FWD EJSS		
62	VO70-650153	RAIL, GUIDE, EJSS		
63	VO70-650161	CHANNEL CLOSEOUT LWR STRUCT		
64	VO70-650163	EJ GUIDE RAIL-UPPER SUPPORT		
65	VO70-650166	LOWER ATTACH FITTING-EJS		
66	VO70-650167	FITTING-LOWER ATTACH ASSY-EJS		
67	VO70-650173	SUPPT LOWER GUIDE RAIL-EJS		REV. A01
68	VO70-650174	SUPPT UPPER EJ GUIDE RAIL		REV. A01
69	VO70-650179	FITTING UPPER FRAME-EJS.		
70	VO70-650181	SHIM RAIL ATTACH-EJS		
71	VO70-650183	SHIM INTERMED, RAIL ATTACH-EJS		
72	VO70-650185	SHIM FITTING EJS LOWER ATTACH		
73	VO70-331301	CROSS BEAM-EJS		REV. A01
74	VO70-730500	DISPLAYS F2 & F4		
75	VO70-333323	CLOSEOUTS		
76	VO70-573006	BUNGEE ASSY		

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>SOURCE</u>	<u>COMMENTS</u>
77	VO70-573009	HOUSING		
78	VO70-573015	SPRING		
79	VO70-573064	ROD		
80	VO70-573025	BELL CRANK		
81	VO70-573024	BELL CRANK		
82	VO70-573002	CONTROL ASSY		
83	VL70-573004	LAYOUT		
84	VO70-573039	BELL CRANK		REV. A01
85	VO70-573035	BELL CRANK		
86	VO70-573023	SUPPORT		
87	VO70-573047	BUNGEE		REV. A
88	VO70-573030	SPRING		
89	VO70-333235	CHANNEL		
90	VO70-573019	BELLCRANK		
91	VO70-573059	RETAINER		
92	VO70-573068	CLEVIS		
93	VO70-573003	PEDAL		
94	VO70-573004	ARM		REV. A01
95	VO70-573021	SUPPORT		REV. A01
96	VO70-573057	BRACKET		
97	VO70-573060	ARM		
98	VO70-573077	SUPPORT		REV. A01
99	VO70-573034	SPRING		
100	VO70-573001	INSTALLATION		(IN COMPLETE)
101	ME131-0028	BEARING		

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
102	ME162-0012	ROD ASSY	
103	VO70-333302	BULKHEAD L.S. AFT	
104	VO70-333303	COVER	
105	VO70-333304	FRAME FWD OUTBOARD	
106	VO70-333305	FRAME ASSY SUR. 'B' DISPLAY PNL SUPPORT	
107	VO70-333306	FRAME ASSY SUR. 'A' DISPLAY PNL SUPPORT	REV A-01
108	VO70-333309	STRUT-OUTBOARD	
109	VO70-333310	ANGLE FLOOR	
110	VO70-333312	SUB. FRAME FWD OUTBOARD	
111	VO70-333314	FITTING SIDE CONSOLE TO MAIN DISPLAY	
112	VO70-333316	TEE-SIDE PANEL AFT	
113	VO70-333317	ANGLE DIAGONAL FWD	
114	VO70-333318	STIFFENER SIDE PANEL L.S. AFT	
115	VO70-333319	SKIN SUP. STRUCTURE	REV. A01
116	VO70-333320	DOOR SPEED BRAKE	
117	VO70-333321	INTERCOSTAL SUP. SPEED BRAKE L.S.	
118	VO70-333322	ANGLE SUP. SPEED BRAKE LOWER	REV. A01
119	VO70-333324	CHANNEL SPEED BRAKE HORIZONTAL BRACE	
120	VO70-333325	STRUT OUTBOARD	REV. A01
121	VO70-333301	SUP. STRUCTURE L.S.	REV. A01
122	VO70-333307	FRAME ASSY AFT R. H. SIDE	
123	VO70-333325	STRUT OUTBOARD	
124	VO70-333311	STIFFENER	REV. A01
125	VO70-333313	BRACE VERTICAL PANEL	
126	VO70-333402	BULKHEAD R.S. AFT	REV. A02
127	VO70-333405	FITTING SUP. SPEED BRAKE	

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
128	VO70-333406	FRAME ASSY FWD R.H.S SUP. B	REV. A01
129	VO70-333407	HINGE SIDE CONSOLE	
130	VO70-333409	BEAM LONGITUDINAL .	
131	VO70-333410	PANEL SHEAR HORIZ.	
132	VO70-333412	TEE FLOOR TO MLC	REV. A01
133	VO70-333413	ANGLE VER. FWD	
134	VO70-333415	STIFFENER R.S. AFT	REV. A01
135	VO70-333416	CLIP BEAM	
136	VO70-333424	ANGLE	
137	VO70-333426	FTG CLOSEOUT SIDE TO MAIN DISPLAY CONSOLE	REV. A01
138	VO70-333427	HINGE VERTICAL PANEL	
139	VO70-333408	ANGLE FLOOR ATTACH	REV. A01
140	VO70-333417	STIFFENER	REV. A01, A02
141	VO70-333411	FRAME DISPLAY PNL SUR. 'A'	
142	VO70-333421	COVER AFT SIDE CONSOLE CLOSEOUT	
143	VO70-333422	COVER FWD SIDE CONSOLE CLOSEOUT	REV. A01
144	VO70-333423	CLOSEOUT INSTL-CONSOLE CREW MODULE	
145	VO70-333511	FRAME SUPP. EYEBROW	
146	VO70-333512	BRACKET, INTERMEDIATE EYEBROW	
147	VO70-339002	BRACKET WIRE HARNESS	
148	VO70-339003	BRACKET AIR RETURN DUCT	
149	VO70-331070		(EO) A-06
150	VO70-331056	SILL UPPER	(EO) A-03
151	VO70-331015	WINDSHIELD FRAME	(EO) B-09
152	VO70-331102	WINDSHIELD	(EO) A-05
153	VL70-000-202	LINES	(EO) B CHANGE
154	VO70-331060	SILL, LOWER	(EO) A-04

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>		<u>COMMENTS</u>
155	VL70-003293	FORWARD FUSS.	REV	A-01
156	VO70-331104	SPACER		A-02
157	VO70-331113	SPACER		A-03
158	VO70-331111	WINDSHIELD		A-06
159	VO70-331112	WINDSHIELD		A-05
160	VO70-331105	RETAINER		A-04
161	VO70-331101	WINDSHIELD		A-02
162	VO70-331070	PANEL SKIN		A-08
163	VL70-000143	LINES		B CHANGE
164	VL70-000204	LINES		A-01
165	VO70-331011	PRIMARY STRUCT		A-01
166	VO70-33-000	MASTER DIM	LAST REV	501-75
167	THRU 33-073.50	(BOOK)		

DATA USED IN GENERATING EYEBROW PANEL STRUCTURE

168	VO70-333515	ANGLE		
169	VO70-333513	BRACKET	(EO)	A-01
170	VO70-333503	HINGE	(EO)	A-01
171	VO70-333514	FRAME	(EO)	A-02
172	VO70-333512	BRACKET		A-01
173	VO70-333520	CLIP		
174	VO70-650412	SUPPORT	(EO)	A-01
175	VO70-333519	PANEL		A-01
176	VO70-333502	SUPPORT STRUC.		A-02
177	VO70-333511	FRAME		A-01

MAIN DISPLAY SUPPORT STRUCTURE

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
178	MC615-0006	DU SPEC.	REV D 01
179	VO70-730559	CHASSIS F6 & F8	REV A
180	VO70-730601	FRAME, MAIN CENTER DISPLAY	
181	VO70-730160	CHASSIS F7	
182	VO70-613730	BRACKET-AIR COOLED AVIONICS	REV A 02
183	VO70-613734	SEAL	REV A 05
184	VO70-613733	CUP	REV A 02
185	VO70-730010	CONSOLE INSTALLATION	
186	VO70-730559	CHASSIS F6 & F8	
187	VO70-730554	BRACKET, SUPPORT ADI	REV A 01

FRAME/FLOOR - COCKPIT

188	VO70-331602	INSTALLATION, FLOOR FLIGHT DECK	A-61
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LIGHTING

189	VO70-730500	GLARESHIELD, DISPLAY & CONTROLS	
190	VL70-730150	LAYOUT-GLARESHIELD ASSY	REV A-01

AIR COND.

191	MC615-0006	SPEC D.U.	REV A
192	MC615-0008	SPEC D.E.U	REV A
193	VL70-003199	CABIN VENT DUCT ROUTING	REV A
194	VO70-613730	BRKT-AIR COOLED AVIONICS	REV A-02
195	VO70-613728	DUCTING INSTL.	
196	VO70-333901	SUPPORT INSTL	
197	VL70-730160	LAYOUT-MAIN CENTER	
198	VO70-613651	PANEL-OUTLET	

OAS ROTATIONAL HAND CONTROLLER (RHC)

ROCKWELL PRINTS

	<u>NUMBER</u>	<u>DESCRIPTION</u>	
199	VO70-730916	BRACKET-VERTICAL SUPPORT-RHC	REV. A (NO. EO)
200	VO70-730911	FITTING-VERTICAL SUPPORT, RHC	
201	VO70-731006	FITTING-ANGULAR ADJUSTMENT-RHC	
202	VO70-731010	WASHER-VERTICAL ADJ-PIVOT, RHC	
203	VO70-731009	SPACER-VERTICAL ADJ-PIVOT, RHC	
204	VO70-731008	YOKE-VERTICAL SUPPORT, RHC	
205	VO70-731013	SLEEVE-SHROUD SUPPORT, RHC	
206	VO70-731017	SHROUD-HALF-RH DEFLECTOR & WIRE GUARD	
207	VO70-731015	BOOT-RHC	
208	MC621-0043	ROTATION HAND CONTROL PAGE 229 & 230 SPEC. FIG. 48 SHEET 1 & 2	REV B
209	VO70-730015	ROTATIONAL HAND CONTROL FLIGHT CREW STA. INSTL	REV A
210	VO70-730910	RHC VERTICAL ADJ-ASSY	
211	VO70-731005	RETAINER-ANGULAR ADJUST KNOW	
212	VO70-731014	BOOT & BRACKET - ASSY	
213	VC70-730918	TUBE-VERTICAL ADJUSTMENT	
214	VO70-731001	KNOB, ANGULAR ADJ.	
215	VO70-730912	PLUG, VERTICAL ADJ. FLIGHT CONTROL	
216	VO70-333101	CONSOLE INSTL. MAIN DISPLAY	REV A EO-03

<u>ITEM</u>	<u>NUMBER</u>	<u>DESCRIPTION</u>	<u>COMMENTS</u>
217	VO70-730913	HANDLE-VERTICAL ADJUSTMENT	
218	VO70-730915	TUBE, OUTER-VERTICAL ADJ.	
219	VO70-730914	SPRING-COMPRESSION	
220	VO70-730917	TUBE-VERTICAL ADJ.	
221	VO70-731002	NUT-ANGULAR ADJUST KNOB	
222	VO70-731003	CLAMP-ANGULAR POSITION ADJ.	
223	VO70-731004	COLLAR-ANGULAR POSITION ADJ.	
224	VO70-731007	FITTING, - FWD THRUST, RHC	
225	VO70-731012	SPACER-ANGULAR ADJUSTMENT PIVOT	
226	VO70-731016	BRACKET-BOOT SUPPORT, RHC	
227	VO70-331635	BEAM, FLIGHT-DECK	REV A, EO-3
228	VO70-731104	PNL - F6A1 FWD CONSOLE CONTROL DISPLAYS	
229	VO70-731101	CHASSIS F6A1	
230	VO70-731102	PNL F6A1 FWD CONSOLE C/D	
231	VO70-731270	PNL L5A1 S/CONSOLE C/D	
232	VO70-731272	BRACKET PNL L5A1	
233	VO70-731330	PNL C2A2 CTR CONSOLE C/D	
234	VO70-731400	PNL 02, OVHD C/D	
235	VO70-739031	GUARD - TOGGLE SW RECESSED ASSY.	
236	VO70-739032	COVER-TOGGLE SW GUARD	
237	VO70-650411	HANDHELD ASSY - OVHD EYEBROW REV. A REGULATOR	

DATA BOOK

B. CREW STATION (CONTROLS & DISPLAYS)

1.0 Scope

This section of the SMS Data Book identifies the design data base for the SMS Crew Station Controls and Displays.

2.1 Design Data

The design data used in Crew Station C&D design is listed in Table 2.1-1.

2.2 Assumptions

All components and instruments accepted for use in the OAS shall be used in the SMS without any revisions.

SPD assumes the X-pointer (GFE) will be similiar to LPN 582882 (LEM unit).

Table 2.1-1

PAGE 1 OF 3

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GFE, LMS reuse

SYSTEM Crew Station- Controls & Displays (Con't)

ITEM	NUMBER	DESCRIPTION	SOURCE	COMMENTS
16	MC434-0073	Annunciator Assembly, (8), Fire Warning; A; 10/30/74	NAR	Revised as 10-display for SMS, data not rec'd
17	0075	Annunciator, Single Event; A; 10/30/74		
18	0076	Annunciator, Special (3), A, 10/30/74		
19	0079	Annunciator Assembly, (5) Event Sequence		
20	0080	Annunciator Assembly (25), Performance Monitor; New; 1/10/75		
21	MC452-0060	Switch, Pushbutton; S; 7/19/68		
22	0061	Switch, Pushbutton, Sequence Stack; T; 7/20/69		
23	0093	Switch, Rotary; J; 8/7/74		
24	0102	Switch, Toggle; H; 10/11/68		
25	0134	Switch, Thumbwheel, Digital Select; B; 4/25/75		
26	MC454-0026	Circuit Breaker, Thermal; B; 8/1/75		
27	MC456-0053	Event Timer; A; 7/10/75		
28	0054	Mission Timer; A; 7/10/75		
29	MC615-0006	Display Unit, Orbiter (CRT); B; 7/7/75		
30	0007	Keyboard Unit, Orbiter; B; 7/7/75		
31	0008	Display Electronics Unit; B; 7/7/75		
32	MC621-0043	Space Shuttle Flight Control Subsystem (RHC, THC, SBTC); B; 2/14/75		RHC & THC are GFE

SYSTEM Crew Station - Controls & Displays (con't)

ITEM	NUMBER	DESCRIPTION	SOURCE	COMMENTS
33	ME432-0253	Indicator, Position Indicating, Landing Gear	ARINC	
34	ME444-0049	Potentiometer, Sealed; H; 2/8/74		
35	ME446-0034	Transformer, Variable, Power; D; 2/6/74		
36	MC343-0068	Interior Lighting Rev. A		
37	ARINC575-3	Mark 3 Sub-sonic Air Data System (Digital) DADS Issued July 15, 1971	IBM	
38	7931074	SID Interface Definition Document Rev. B; 10/22/75		
39	582882	X-Pointer	SINGER	GFE, LMS reuse
40	MC432-0233	X-Pointer		Data not received
41	0255	Rendz Radar Indicator		Data not received
42	V070-660810	COAS		Data not received
43	ICD3-0018-XX	Manipulator Control Arm		Data not received
44	MC434-0082 thru -0282	Panel Overlay Lighting		Data not received
45	MC434-0078	Overhead Incandescent Assembly		Data not received

"SMS-DATA BOOK"

**IDENTIFYING
INCREMENTATL SECTION
RELEASE SHEET**

The following is part of Section 22, WP #22.

Instructor Operator Stations

DATA BOOK
INSTRUCTOR OPERATOR STATIONS

1.0 Scope

This section of the SMS Data Book identifies the design data base for the SMS Instructor-Operator-Observer Stations.

2.0 Design Data

The Design Data used in the SMS Instructor-Operator-Observer Stations is listed in Table 2.0-1.

2.1 Assumptions

None

SMS DATA BOOK

Table 2.0-1

SYSTEM Instructor Operator Stations.

PAGE 1 OF 1

ITEM	NUMBER	DESCRIPTION	SOURCE	COMMENTS
1	7931074	SID Interface Definition Document, 10/22/75	IBM	
2	MC615-0006	Display Unit, B;	NASA	
3	MC615-0007	Keyboard Unit; B;	NASA	
4	MC615-0008	Display Electronics Unit; B;	NASA	
5		Addendum A to S.O.W. SMS Design Specifications	NASA	

"SMS-DATA BOOK"

**IDENTIFYING
INCREMENTAL SECTION
RELEASE SHEET**

The following is part of Section 24, WP #24.

Subsection: Power and Grounding.

DATA BOOK

POWER AND GROUNDING

1.0 Scope

This section of the SMS Data Book identifies the design data base for the SMS Power and Grounding

2.0 Design Data

The Design Data used in the SMS Power and Grounding is listed in Table 2.0-1.

2.1 Assumptions

None

ITEM	NUMBER	DESCRIPTION	SOURCE	COMMENTS
1	Pub. No. 38-089	Interdata Installation Planning Guide, July '74		
2	7931074	SID Interface Definition Document, 10/22/75	IBM	
3		OAS CEI, Part I, Power and Grounding 3/5/76	Singer	
4	AST-9	AST Sub-Controller & System Card Tech. Report, 10/14/75.	Singer	
5	WI-537-42	General Work Instructions for Product Design for Contract NAS9-14910, 13 Feb '76.	Singer	
6		Standard Engineering Practices Manual, Revision C, 1/'74.	Singer	
7		Addendum A to S.O.W SMS Design Control Spec.	NASA	